Devashish Thakur

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Education

Aug 2014- **Master of Science in Computer Science**, *Stony Brook University.*

Aug 2007-May 20011 **Bachelor of Technology in Computer Science**, *PES Institute of Technology, Bangalore, India, 8.37/10.*

Research Interests

Data Mining, Machine Learning,Text Mining, Social Network Analysis

Publications

Re-optimization of ID3 and C4.5 algorithm, *Devashish Thakur, Nisarga Markandaiah, Sharan Raj D, ICCT India, Sep 2010.*

A Novel Approach towards Very High Level Programming, *Darshan Patel, Devashish Thakur, Kavi Mahesh, International MultiConference of Engineers and Computer Scientists, Hong Kong, 2014.*

Programming Skills

Languages	Java, Python, MATLAB, C, C++
Platforms	Linux, Windows, Unix
Version Control	Perforce,GIT

Research Experience

Data Mining Project	**Network Anomaly Detection** : Used Graph based features to build a model for Network Traffic Data and predict whether a host is anomalous or not
Tools	Python, R, Networkx, SciPy
Asynchronous Systems	**Chain Replication for Supporting High Throughput and Availability** : Developed a fault tolerant banking application using chain replication protocol. Failure of servers or Packet Loss between client and server or between servers was handled asynchronously without any redundancy or duplicate protocol execution.
Tools	Python, DistAlgo

Professional Experience

July 2011-Aug 2014 **Application Software Engineer**, *Akamai Technologies, Bangalore*, India.

Project

Security Monitor , Kona IP Defender and QOS Monitor - These were live monitoring solutions of Akamai to track security attacks or to track user behavior. The data aggregation and latency of the product required was of one minute. In order to achieve that, I used various Java asynchronous techniques like threading to decrease the latency and load queries in parallel. I also used static hashing, lazy loading and Memcache client to make the configuration available on the server.

Audience Analytics, Monitor Streams and Viewer Diagnostics - Worked on Audience Analytics, which was used to track audience behavior over a period of 13 months. The challenge here was managing the huge volume of data. I used JavaScript asynchronous techniques to load widgets in parallel and pagination techniques to load partial data. Worked on Viewer Diagnostics, which is used by the customer care wing of Akamai's customer to track viewer behavior of their paid customers. Since the data involved confidential data, I used PBKDF2 hashing algorithm to encrypt content.

Mar 2011-May 2014 **Software Engineering Intern**, *Akamai Technologies, Bangalore*, India.
Developed a dashboard for QOS Monitor solution of Akamai using Javascript, JSP and Java

May -July 2010 **Software Engineering Intern**, *Samsung India Software Operations, Bangalore*, India.
Developed a mobile application that used GPS co-ordinates of current location of the user and showed the location of nearby restaurants, cinemas, atm, hospitals. It worked on both GPS as well as non GPS enabled phone.

Honors and Awards

Received Certificate of Merit for The 2014 IAENG International Conference on Computer Science for the paper - A Novel Approach towards Very High Level Programming

Received first prize at Hackathon sponsored by Akamai Technologies for building Android application for their live monitoring web-application

Received spot-award at Akamai Technologies for my work in QoS Monitor and Viewer Diagnostics

Received highest employee rating for two consecutive years at Akamai Technologies

Received Samsung mobile Innovator for my work at Samsung India Software operations